

ABSTRACT

Novel genes have been isolated which encode cytochrome P450 and NADPH reductase enzymes of the ω -hydroxylase complex of *C. tropicalis* 20336. Vectors including these genes, transfected host cells and transformed host cells are provided. Methods of producing of cytochrome P450 and NADPH reductase enzymes are also provided which involve transforming a host cell with a gene encoding these enzymes and culturing the cells. Methods of increasing the production of a dicarboxylic acid and methods of increasing production of the aforementioned enzymes are also provided which involve increasing in the host cell the number of genes encoding these enzymes. A method for discriminating members of a gene family by quantifying the expression of genes is also provided.